 997244

NPIC/TDS/D-905-67
23 June 1967

MEMORANDUM FOR THE RECORD

SUBJECT: In-Plant Check-out of the Prototype Briefing Print Enlarger

REFERENCES: PAR 243A - Prototype Briefing Print Enlarger
PAR 244 - Spare Parts, RT-12 and RT-24
PAR 245 - BPE High Magnification Lens Sets

1. On 20-21 June 1967, the in-plant check-out of the prototype Briefing Print Enlarger (BPE) was made at the [redacted] 25X1
[redacted] 25X1

2. The first day (1/2 day) was spent in familiarizing the NPIC personnel with the operation of the instrument. The second day was entirely devoted to instrument performance, using the BPE Preliminary Specification 469-333B, dated 15 March 1967, as a guideline for anticipated results. Check-out was made primarily with the "A", "C" and "F" lenses due to the limited time available. All parameters of the test specification were met or exceeded with the exception of the 550 l/mm called for with the "F" lens at 62.5X magnification and 80" OAC. The best resolution obtainable in the testing was a positive 522 l/mm. This, however, was felt to be the result of a defective target in the original material and not the lens set. The film transport problem encountered in the late stages of [redacted] testing appears to be solved. Both 70mm and 9 1/2" material was transported at all speeds with no creeping, back-lash, etc. The fluid gate system operates satisfactorily, although it is felt that operator experience will be required to assure optimum operation. Several instances occurred when the gate was closed too quickly or too slowly and trapped air between the glass plates and the film.

3. As a result of the successful check-out the prototype BPE will be crated and delivered to NPIC on 26 June 1967 for installation and acceptance. An installation team from [redacted] will be on hand through 30 June 1967 for this effort.

4. Additional funding above the estimated total of [redacted] will probably be requested by [redacted] for completion of the prototype BPE. This amount is estimated to be around [redacted] 25X1

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5. The following items concerning the RT-12 and RT-24, processors were disucssed with X1 [redacted]

a. RT-12 -- A cost estimate was requested for 232 stainless steel studs to replace decomposed plastic studs in the bleach tank racks and for twelve gears #459240 for both processors.

b. RT-24 -- A cost estimate was requested for removal of the dryer cabinet and providing a print exit into a Pakosol bath.

A cost estimate was requested to add another air tube in the dryer adjacent to the exit squeeze.

A leak in the ferrotype drum dryer was reported and a proposal was requested to correct the deficiency.

Replacement costs were requested for a defective terminal contact in the dryer circuit breaker.

c. The costs involved in the above would be chargeable to PAR 246.

d. Spare parts - RT-12 and RT-24 -- A total of 50% of the contracted spare parts have been delivered. Fabrication of the remainder is behind schedule. Consequently delivery will not be made until the end of July.

6. The prototype high magnification lens set being designed and tested under PAR 245 is progressing well. The condensor elements for both lenses are on hand as well as one objective lens. The mechanical assemblies for both the condensor lenses and the objective lenses are in manufacture. Once the lenses are assembled, they will be transported to NPIC for focus, alignment and calibration on the prototype BPE. This is anticipated to occur sometime in mid August and will require about 1 1/2 days time on the BPE. 25X1

[redacted]

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